In the Claims

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CONFIRMATION

	1. (Amended) A resist	or having a resistance	that can be adj	justed by current	being passed
there	through and which is forr	ned as part of a semic	onductor devic	e comprising:	

a polycrystalline silicon resistor formed of and on a layer, wherein said polysilicon resistor is formed using a doping wherein said doping has a concentration of from $\sim 6 \times 10^{19}$ cm⁻³ to $\sim [3.75] 1 \times 10^{20}$ cm⁻³ and wherein said polycrystalline silicon resistor has at least a first and second order temperature coefficient, wherein the sign of said first and second order temperature coefficients are opposite each other; and

wherein said resistor resistance is electronically trimmable within a range from 60% to 30 % of original value and

further wherein said [doping] <u>dopant consist essentially of Phosphorus</u>. [produces a fine grain size and an increased grain boundary density] .

2. (Previously Amended) A resistor having a resistance that can be adjusted by current being passed there through and which is formed as part of a semiconductor device comprising:

a polycrystalline silicon resistor formed of on a layer, wherein said polysilicon resistor is formed using a doping wherein said doping has a concentration of less than $\sim 3.75 \times 10^{20}$ cm⁻³ and wherein said polycrystalline silicon resistor has at least a first and second order temperature coefficient, wherein the sign of said first and second order temperature coefficients are opposite each other; and



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8	wherein said resistor resistance is electronically trimmed trimmable within a range from			
9	60% to 30 % of original value and			
10	further wherein said dopant consist essentially of Phosphorus. [doping produces a fine			
11	grain size and an increased grain boundary density].			
	3-10. (Cancelled)			
1	11. (Amended) A resistor having a resistance that can be adjusted by current being			
2	passed there through and which is formed as part of a semiconductor device comprising:			
3	a polycrystalline silicon resistor formed of on a layer, wherein said polysilicon resistor is			
4	formed using a doping wherein said doping has a concentration of greater than ~6x10 ¹⁹ cm ⁻³ and			
5	wherein said polycrystalline silicon resistor has at least a first and second order temperature			
6	coefficient, wherein the sign of said first and second order temperature coefficients are opposite			
7	each other; and			
8	wherein said resistor resistance is electronically trimmed trimmable and			
9	further wherein said dopant consist essentially of Phosphorus. [doping produces a fine			
10	grain size and an increased grain houndary density			

12. (Amended) A resistor having a resistance that can be adjusted by current being passed there through and which is formed as part of a semiconductor device comprising:

a polycrystalline silicon resistor formed of on a layer, wherein said polysilicon resistor is formed using a late implant doping technique and wherein said polycrystalline silicon resistor



CONFIRMATION

- 5 has at least a first and second order temperature coefficient, wherein the sign of said first and
- 6 second order temperature coefficients are opposite each other; and
- 7 wherein said resistor resistance is electronically trimmed trimmable and
- 8 further wherein said dopant consist essentially of Phosphorus. [doping produces a fine
- 9 grain size and an increased grain boundary density .]

13-15. (Cancelled)

